

IN THE CLAIMS:

Please add new claims 28-44 as follows:

--28. (New) A method of allocating a common packet channel resource of a communication system, comprising:

AG selecting an available one of a plurality of resource request signatures; and

mapping the selected resource request signature to a corresponding scrambling code to allocate a resource of the communication system.--

--29. (New) The method of claim 28, wherein each resource request signature follows an orthogonal variable spreading factor (OVSF) code tree scheme.--

--30. (New) The method of claim 29, wherein a channelization code for a control part is spread by a code $C_c = C_{256,0}$, and wherein a data part is spread by a code $C_d = C_{SF,k}$, and wherein SF is the spreading factor of the data part, and wherein $k = SF/n$, wherein n is an integer greater than 0.--

--31. (New) The method of claim 30, wherein n is 4.--

--32. (New) The method of claim 29, wherein a channelization code for a control part is spread by a code $C_{256, 128}$, and wherein a data part is spread by a code $C_{SF, 3*SF/n}$, and wherein SF is the spreading factor of the data part, and wherein n is an integer greater than 0.--

--33. (New) The method of claim 32, wherein n is 4.--

--34. (New) The method of claim 32, wherein a selected branch of the OVSF code tree is followed from one of node $C_{2,0}$ and node $C_{2,1}$ having a spreading factor of 2.--

--35. (New) The method of claim 28, wherein the resource request signature is selected from among an access preamble (AP), a collision detection preamble (CD-P), a collision detection indicator channel (CD-ICH), and a channel assignment indicator channel (CA-ICH).--

--36. (New) The method of claim 28, wherein the common packet channel is established between at least one of a user equipment (UE) to a Universal Terrestrial Radio Access Network (UTRAN) and a UTRAN to a UE.--

--37. (New) A communication device, comprising:

a first means that selects an available one of a plurality of resource request signatures; and

a second means that selects a corresponding scrambling code according to
5 a mapping of the selected resource request signature.--

--38. (New) The device of claim 37, wherein each resource request signature follows an orthogonal variable spreading factor (OVSF) code tree scheme.--

--39. (New) The device of claim 38, wherein a channelization code for a control part is spread by a code $C_c = C_{256,0}$, and wherein a data part is spread by a code $C_d = C_{SF,k}$, and wherein SF is the spreading factor of the data part, and wherein $k = SF/n$, wherein n is an integer greater than 0.--

--40. (New) The device of claim 39, wherein n is 4.--

--41. (New) The device of claim 38, wherein a channelization code for a control part is spread by a code $C_{256,128}$, and wherein a data part is spread by a code $C_{SF,3*SF/n}$, and

wherein SF is the spreading factor of the data part, and wherein n is an integer greater than 0.--

--42. (New) The device of claim 41, wherein n is 4.--

--43. (New) The device of claim 37, wherein the resource request signature is selected from among an access preamble (AP), a collision detection preamble (CD-P), a collision detection indicator channel (CD-ICH), and a channel assignment indicator channel (CA-ICH).--

--44. (New) The device of claim 37, wherein the common packet channel is established between at least one of a user equipment (UE) to a Universal Terrestrial Radio Access Network (UTRAN) and a UTRAN to a UE.--